

Northern Mining News

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From the Editor ...

At the Chamber, we continue to promote the value industry provides to the North. With this in mind, we were very pleased to have had the opportunity to meet with newly elected members of the 19th Legislative Assembly, and brief them on the state of the minerals industry. We reminded them that exploration and mining is the biggest private sector piece of the North's economy. In 2018, it generated 1,540 jobs for northerners and spent \$800 million with northern businesses. Have a look at the media release on the next page and I encourage you to take the time to look closer at the presentation too! The minerals industry is socio-economically important to the NWT and the consequences of maturing diamond mines are not pretty. And when they close, as all mines do, this will leave a serious hole in the NWT economy. The decline in mineral exploration spending is also very concerning; exploration companies find mines. Bottom line is if the NWT wants a strong economy, it needs a strong minerals industry.

Looking to the east, congratulations to Agnico Eagle for achieving commercial production at its Amaruq satellite deposit which adds several years to Meadowbank's mine life.

In closing, the Chamber looks forward to welcoming delegates and exhibitors to the 47th Annual (2019) Yellowknife Geoscience Forum which takes place November 19-21. The annual conference is joint initiative of the Chamber and the Government of the NWT's Department of Industry Tourism, and Investment. Register now!

Happy reading! ... Editor

Our Mission: To provide leadership on, and advocate for, responsible and sustainable mineral exploration and development in the NWT and Nunavut.

Chamber of Mines and Chamber of Commerce meet with NWT MLAs

The NWT & Nunavut Chamber of Mines and the NWT Chamber of Commerce provided an industry overview to members of the Northwest Territories 19th Legislative Assembly.

“This was an excellent opportunity to provide MLAs with in-depth details about the many challenges our industry faces as the largest private sector contributor to the territorial economy. We are concerned about the future of the industry and we want to work collaboratively with the 19th Legislative Assembly to get back on track,” said NWT & Nunavut Chamber of Mines President Gary Vivian. “We want to ensure the minerals industry remains a strong part of the territory’s economy,” he added. Key messages from the event include:

- Support junior explorers and understand why there is no exploration investment
- Our environmental regulatory processes are robust, but the Mackenzie Valley Resource Management Act needs to be devolved and brought home to northerners so we can eliminate the complex and unpredictable uncertainty that drives investment away
- Evaluate socio-economic benefits to NWT and its communities before alienating lands
- Undertakings to provide critical infrastructure should include a partnership with Indigenous business development corporations
- The polytechnic institute being proposed for the North is critical in building capacity long-term for the mineral industry as well as the rest of the private sector



Representatives of the Chamber of Mines and Chamber of Commerce met with the Northwest Territories 19th Legislative Assembly to provide an industry overview. Chamber of Mines/Bill Braden photo

- The mineral resources cycle from grassroots exploration, through operations, to closure and reclamation presents many opportunities and it can be a renewable resource
- Mineral industry benefits are many, but impact benefit agreements are a thing of the past, as stakeholders seek to create partnerships between public and Indigenous governments, communities and the mineral industry.

See the Chamber's [release](#). See the October 22 [presentation](#) and click [here](#) for the chambers' letter to MLAs which highlights key points from the October 22 meeting.

Agnico Eagle achieves commercial production at Amaruq

Agnico Eagle Mines Limited reports [commercial production was achieved at the company's Amaruq satellite deposit](#) at Meadowbank on 30 September 2019.

Development of the Amaruq project was approved in February 2017 by the company's Board of Directors as a satellite deposit to supply ore to the existing Meadowbank mill.

"Congratulations to all of our employees at Amaruq for achieving commercial production in line with the original schedule despite ongoing challenges related to dewatering and adverse weather conditions in the second and third quarters of 2019. We would also like to thank the various government agencies and the local communities for their continued support in Nunavut," said Sean Boyd, Agnico Eagle's Chief Executive Officer. "With the start of production at both Amaruq and Meliadine in 2019, the company is well positioned to deliver on its goal of generating net free cash flow in the second half of this year. This is expected to allow us to reduce net debt and potentially increase the dividend while continuing to steadily grow our business", added Mr. Boyd.

The Amaruq mining operation uses the existing infrastructure at the Meadowbank mine (mining equipment, mill, tailings, camp and airstrip). Additional infrastructure has been built at the Amaruq site (truck shop/warehouse, fuel storage and an additional camp facility). Amaruq ore is transported using long haul off-road type trucks to the mill at the Meadowbank site for processing.

Amaruq ore processing commenced in August 2019 using low-grade stockpiles. In the third quarter of 2019, production at the Meadowbank complex totaled 48,869 ounces of gold, which included 13,588 ounces from Meadowbank and pre-commercial payable gold production at Amaruq of 35,281 ounces, compared to pre-commercial production guidance of 40,000 gold ounces. Pre-commercial production gold sales totaled 32,042 ounces. An update on total project capital costs will be provided with the company's 2019 third quarter results scheduled for release on October 23, 2019.

During the third quarter of 2019, mining activities at Amaruq continued to be affected by slower than expected dewatering activities (largely related to heavier than expected rainfall). Dewatering is now substantially complete (approximately one month later than previously expected). Given the slower than expected ramp up of mining activities, the company took the opportunity to accelerate planned maintenance to the milling and crushing circuits, which was originally scheduled for 2020. As a result, the mill was temporarily shut down in mid-September and is expected to restart on or about October 14, 2019. During the shutdown ore continues to

be mined and trucked to the Meadowbank mill, where it is being stockpiled for future processing.

As a result, production guidance at the Meadowbank Complex for 2019 is now anticipated to be 200,000 ounces of gold (previous forecast of 230,000 ounces). Despite the lower forecast for the Meadowbank Complex, the company's full year 2019 production guidance of 1.75 million ounces of gold remains unchanged.

(All amounts expressed in U.S. dollars unless otherwise noted)



The 100% owned Amaruq satellite deposit is located approximately 50 kilometres northwest of the Meadowbank mine, which in turn is located approximately 110 kilometres by road north of Baker Lake in the Kivalliq District of Nunavut, Canada. Agnico Eagle photo

Fortune provides NICO project technical report update

Fortune Minerals reported the 6,000 tpd throughput rate that was being considered for the NICO development is not justified in the current cobalt price environment and efforts are refocusing on the previous 4,650 tpd rate.

Fortune provided a progress report on the study by Hatch Ltd., P&E Mining Consultants Inc. and Micon International Limited that was updating the 2014 National Instrument 43-101 Technical Report on the NICO Project Feasibility Study by Micon. The previous technical report validated the feasibility of the NICO Cobalt-Gold-Bismuth-Copper Project at a mill production rate of

4,650 tonnes of ore per day using a combined open pit and underground mining strategy and vertically integrated development.

After assessing the indicative economics of the expanded 6,000 tpd mill throughput rate, Fortune has concluded that the additional capital required to construct a larger project would not deliver a commensurate increase in cash flows to justify the expansion from 4,650 tpd at prevailing cobalt and bismuth prices.

Work on the 6,000 tpd project has been suspended. However, before completing an updated technical report based on a smaller, higher grade project, Fortune is evaluating a number of additional opportunities to optimize project economics.

“An environment that has seen curtailment from the world’s largest cobalt mines is not conducive for an expanded, capital intensive project at this time. However, the world continues to transition to electric mobility and will require new sources of cobalt that are independent of the Congo to meet the increase in demand from the battery sector. Fortune is optimizing its NICO development to be more robust at various cobalt prices and position the company to support the transformation of the auto industry,” said Robin Goad, President and CEO of Fortune.

Tlicho all season road

Fortune is pleased to report construction of the Tlicho Road began in September and is progressing quickly. This C\$200 million initiative of the Canadian, Northwest Territories and Tlicho governments will provide important road access to the community of Whati, located 50 km south of the NICO deposit, by connecting the community to the Territorial highway system. Fortune has already received environmental assessment approval for a spur road between Whati and the mine site. The Tlicho Road is a critical enabler for the NICO development that will allow metal concentrates produced at the mine to be trucked to Hay River for transportation by rail to a refinery in southern Canada for processing or to a port of export. [View release](#)



The project is funded jointly by the Government of Canada (25%) and the Government of the Northwest Territories (75%) and the Tlicho Government will have a 25% equity stake in the road. GNWT photo

Northern Minerals Industry – Companies and Individuals – receive awards

Meadowbank developer named to Canadian Mining Hall of Fame

Agnico Eagle's Eberhard Scherkus is among the newest members of the Canadian Mining Hall of Fame.

A geologist and professional engineer, Scherkus developed the Meadowbank gold project, Agnico Eagle's first Arctic mine. He joined Agnico as a project manager in 1985, became chief operating officer in 1998, and was president and COO from 2005 until retiring in 2012. He transformed Agnico Eagle from a regional single-mine company into a top-performing global gold producer, with nine mines in Canada, Finland and Mexico.

Northern Miner, Canadian Institute of Mining, Metallurgy and Petroleum, Mining Association of Canada, and Prospectors & Developers Association of Canada are hall of fame sponsors.

The annual induction dinner will take place on in January, in Constitution Hall at the Metro Toronto Convention Centre.

The Hall of Fame was founded in 1988 by the Northern Miner, the Mining Association of Canada, the Prospectors and Developers Association of Canada and the Canadian Institute of Mining, Metallurgy and Petroleum, the CMHF is a charitable organization that recognizes outstanding achievement in the mining industry, celebrates individual leadership and inspires future generations in mining. Members are selected through a fair, inclusive and accessible process driven by the CMHF Board of Directors and its member associations. For more on the 2020 inductees click [here](#) and for more on the hall of fame visit www.mininghalloffame.ca.



Canadian Mining Hall of Fame inductee Eberhard (Ebe) Scherkus. Northern Miner photo

Peregrine Diamonds, BHP Chidliak discovery team, recognized by PDAC

For the discovery of the Chidliak diamond district on Baffin Island, Nunavut, the Peregrine/BHP team have received the 2019 PDAC Bill Dennis award.

Peregrine Diamonds Ltd. discovered the first kimberlites in the Chidliak diamond district of southern Baffin Island, Nunavut in 2008. By the time De Beers Canada acquired the junior a decade later, 74 kimberlites had been discovered and a positive preliminary economic assessment (PEA) had been released showing that two of the kimberlites could support an operation producing 16.7 million carats over a 13-year mine life. In the early 2000s, BHP Billiton focused its efforts on southern Baffin Island as a prospective area for diamond exploration. Although most age-dating information suggested that the basement geology was not ideal to host economic diamond deposits, exploration manager Geoff Woad was sceptical of the studies and felt strongly that BHP should target the region. Looking to leverage its diamond exploration spending, BHP formed a strategic alliance with Peregrine to explore Baffin Island for diamonds and metals. After conducting a jointly-funded regional sampling program in 2005, enough kimberlite indicator minerals (KIMs) were recovered to justify a follow-up program.

In 2006, Peregrine took responsibility for sole funding, operating and property acquisition, leaving BHP with certain back-in rights. After a successful 2006 follow-up program the first claims were acquired in early 2007. The field program confirmed high diamond potential on the property. Chairman Eric Friedland kept the funding taps flowing during this period, while President Brooke Clements prioritized the project over all others in the junior's stable during the tough equity markets of 2008.

By 2008, glacial till sampling had sufficiently outlined a target area where Peregrine initiated the first airborne geophysical survey. The diligent field crew combined geophysical interpretation and prospecting to identify the first three kimberlites at Chidliak on a real-time basis. The first kimberlite yielded a two carat gem quality diamond that same year.

Encouraged by the finds in 2008, BHP exercised its back-in rights to acquire a joint-venture interest and funded exploration programs for the next three years resulting in a rapid pace of kimberlite discovery. When BHP decided to exit the diamond business in 2011, Peregrine purchased their entire 51% interest in the project for \$9 million.

Peregrine also purchased BHP's 2% retained royalty.



Rough diamonds from the Chidliak deposit Nuanvut. De Beers Canada photo

Persistent, methodical exploration paid off and by 2016 Peregrine had discovered a total of 74 kimberlites, the majority of which are diamondiferous. Today, it is now well-established that the Chidliak kimberlite field is hosted by old Archean terrain, confirming Woad's early suspicions about the basement geology. Peregrine was able to hone in on the most prospective of the kimberlites and included two of them in a PEA released in mid-2018. The PEA outlines an open pit mine with a capital cost of \$521 million, including a \$95 million access road from Iqaluit, with an after-tax NPV of \$669 million and an IRR of 31.2%.

In September 2018, De Beers Canada acquired Peregrine and all of its Canadian projects in a friendly deal priced at 24 cents per share, or \$107 million. De Beers is planning to apply the "FutureSmart" approach to mining at Chidliak using innovative techniques developed by its parent Anglo American to shrink mining's footprint and lower energy costs.

For more information, see PDAC's website [here](#) and Chidliak [video](#).

Avalon's Don Bubar receives PDAC Distinguished Service Award

For his contribution to building awareness of Indigenous issues among PDAC members, his support of geoscience education in Canada, and his exploration success.

During Don Bubar's 40-year career as a geoscientist he has contributed to successful exploration in Canada, and been a leading advocate for geoscience education. But his most enduring legacy may be his role in forging a better, more productive relationship between Indigenous groups and the minerals industry. As founder and head of the PDAC's Aboriginal Affairs committee, Don recognized the urgent need to bring the two groups together in dialogue about how exploration and mine development could support local communities through training, jobs, and business development.

Don graduated from McGill University with a B.Sc. in geology in 1977 and completed his M.Sc. at Queen's University in 1981. He worked as an exploration manager for Aur Resources from 1984 to 1994 where, as Vice-President of Exploration, he helped guide the discovery of the Louvicourt copper-zinc mine near Val d'Or, Québec. He has been President and CEO of Avalon Advanced Materials since 1995, working to develop three advanced stage projects across Canada with the potential to provide critical metals and minerals for new technology applications.

Don was chair and co-chair of PDAC's Aboriginal Affairs committee from its creation in 2004 until his retirement from the PDAC Board of Directors in 2013. During his tenure, the number of Indigenous participants at the organization's annual convention grew exponentially and, in 2009, PDAC signed a ground-breaking agreement with the Assembly of First Nations to promote participation of Indigenous people in the minerals industry. Through Don's work, there is increased understanding by PDAC members about the importance of community engagement from the earliest stages of mineral exploration.

Don serves on the Advisory Board to the Faculty of Science at his alma mater McGill, and is a Director of the Northwest Territories and Nunavut Chamber of Mines. He has personally endowed three separate scholarships supporting at least six students annually at McGill and at Dalhousie University in Halifax.

In 2016 Don joined the Board of Mining Matters, a charitable organization with the mission to support geoscience education in the Canadian school system and increase awareness about the relevance of minerals and metals in modern society. In his latest role, he will advocate for Indigenous youth camps where the next generation of northerners will have the opportunity to explore career opportunities within the industry.

Watch the PDAC's video of Don [here](#).



TMAC reports third quarter financial results, initiates Madrid underground

In October, TMAC Resources Inc. reported its third quarter 2019 financial results.

“TMAC reported a third quarter net profit of \$0.07 per share on revenue of \$72.8 million with an average realized gold price of US\$1,469 per ounce. EBITDA improved to \$35.1 million from \$26.2 million in the previous quarter and cash flow from operations before working capital changes improved to \$30.1 million from \$19.9 million. Quarter-end cash balance was \$76.8 million, including \$47.4 million unrestricted,” said Jason Neal, President and Chief Executive Officer of TMAC. “Although plant recoveries in the third quarter increased from 80% to 82%, quarterly production did not improve as plant feed grade was lower. Quarter over quarter, Cash Costs⁽¹⁾ were unchanged at US\$729 per ounce, and AISC⁽¹⁾ increased to US\$1,155 per ounce from US\$1,081 per ounce in the second quarter and is attributed to an increase in sustaining capital per ounce from US\$254 to US\$343 related largely to annual sealift capital items,” he added.

Third quarter 2019 financial highlights

- Gold production and sales: 36,290 ounces produced; 37,580 ounces sold
- Gross revenues: \$72.8 million
- Average realized gold price: \$1,938 per ounce (US\$1,469 per ounce)
- Cash Costs ⁽¹⁾: US\$729 per ounce of gold sold
- Cost of sales ⁽²⁾: US\$1,075 per ounce of gold sold



TMAC reports average gold price \$1,938 per ounce (US\$1,469 per ounce) for third quarter. TMAC photo

- All-in Sustaining Costs (“AISC”)(¹): US\$1,155 per ounce of gold sold
- Adjusted EBITDA (¹): \$38.0 million
- Net profit: \$8.4 million
- Net profit per share
- \$0.07 per share on a basic and fully diluted basis
- Cash flows from operations: \$12.0 million/\$30.1 million before working capital changes
- Sustaining capex (¹): \$17.1 million
- Expansion capex (¹): \$17.7 million
- Cash on hand: \$76.8 million at September 30, 2019, including: \$47.4 million of unrestricted cash/\$29.4 million of restricted cash
- Principal repayments: \$nil
- Debt principal balance: \$154.9 million (US\$117.0 million)

All amounts are in Canadian dollars unless otherwise indicated.

(¹) Refer to the “Non- IFRS Measures” section in the associated MD&A for a description and calculation of these measures.

(²) Includes depreciation.

See the [October 31 financial results release](#) for more details including information on:

- Revised 2019 guidance
- Third quarter 2019 production highlights
- Update on mining
- Update on plant throughput and recoveries

See [TMAC’s third quarter operating results release](#). Also in October, TMAC announced that it [continues to intersect high-grade at Doris BTD extension zone](#).

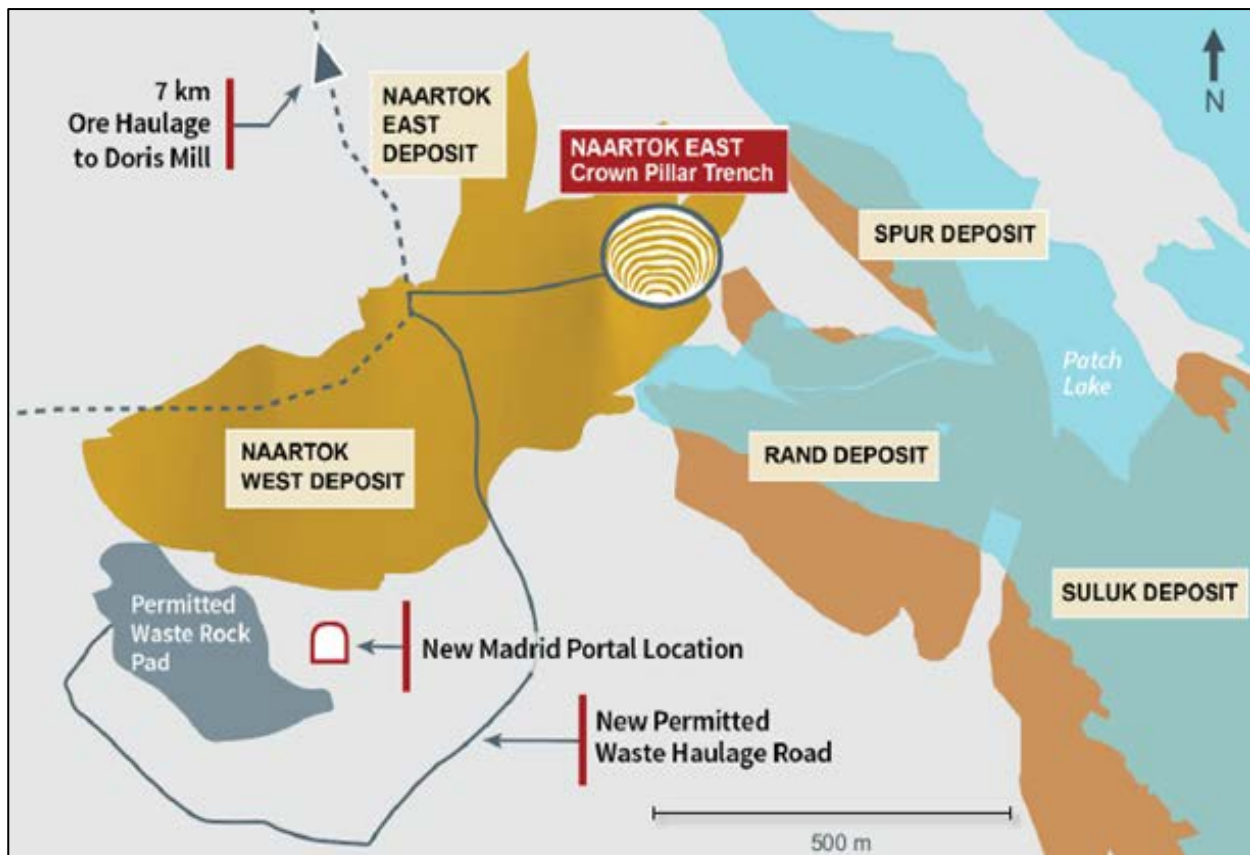
TMAC initiates Madrid North underground portal

TMAC Resources Inc. is pleased to announce that construction has started on the Madrid North underground portal. The portal and underground development is targeting the Naartok West zone, enabling access to first production stopes in late 2020.

“We are pleased to announce breaking ground on the Madrid underground portal. This is an important milestone as Madrid North development will provide both near-term operational flexibility and enable medium-term potential growth alternatives at Hope Bay,” said Jason Neal, President and Chief Executive Officer of TMAC.

“The Naartok West zone will be the first underground area developed within the overall Madrid North deposit, which as at December 31, 2018 had a defined reserve of 2.17 million ounces of gold, almost entirely above the 400 metre level. Near surface, the Naartok West zone includes a wide, high-grade core as demonstrated again by the results of the 2018 surface drilling program. Drilling results in 2018, targeted from surface to the 150 metre level, include drill-hole intersections up to 7.4 g/t Au over 65.7 metres, including 14.4 g/t Au over 26.1 metres and 12.9 g/t Au over 50.0 metres, including 60.1 g/t over 8.0 metres. The Naartok West deposit

lends itself to efficient mining via conventional long-hole stopes, with increased mining widths and ounces per vertical metre,” he added



The Madrid North development. TMAC illustration

Mountain Province announces third quarter 2019 production and sale results

Mountain Province Diamonds Inc. today announces production and sales results for the third quarter ended September 30, 2019 from the Gahcho Kué Diamond Mine. The company also releases the details for its Q3 2019 earnings conference call and webcast. All figures are expressed in Canadian dollars unless otherwise noted.

Q3 2019 Highlights

(all figures reported on a 100% basis unless otherwise stated)

- 11,742,138 total tonnes mined, a 1% increase on comparable period (Q3 2018: 11,592,000), and an 8% increase from previous quarter (Q2 2019: 10,865,263).
- 1,004,828 tonnes of ore mined, a 13% decrease from comparable quarter (Q3 2018: 1,155,000 tonnes), and a 35% increase from previous quarter (Q2 2019: 746,583).
- 890,325 tonnes of ore treated, a 17% increase from comparable quarter (Q3 2018: 759,000 tonnes), and a 1% increase from previous quarter (Q2 2019: 882,374).

- 1,528,494 carats recovered at an average grade of 1.72 carats per tonne, 16% lower than comparable quarter (Q3 2018: 1,819,000 carats at 2.40 carats per tonne), and 12% lower than the previous quarter (Q2 2019: 1,730,147 carats at 1.96 carats per tonne).

Q3 2019 Production Statistics¹

	2019 Q3	2018 Q3	YOY Variance
Total tonnes mined (ore and waste)	11,742,138	11,592,000	1%
Ore tonnes mined	1,004,828	1,155,000	-13%
Ore tonnes treated	890,325	759,000	17%
Carats recovered	1,528,494	1,819,000	-16%
Carats recovered (49% share)	748,962	891,000	-16%
Recovered grade (carats per tonne)	1.72	2.40	-28%

All figures reported are on 100% basis unless otherwise stated

Q3 2019 diamond sales

The company's Q3 2019 sales results are based on two full sales (sales #6, and #7) and partial payment received for sale #8, due to timing of the last sale in relation to the close of Q3 2019 financial reporting period. Full payment for sale #8 has been received and the remaining balance will be reflected in the sales results in Q4 2019.

The sentiment in the rough diamond market remains cautious and the most recent sales results reflect this. The recent protests in Hong Kong and ongoing trade negotiations between US and China have also affected the mood in the market.

The company's medium to long term outlook for rough diamonds remains positive. The major producers have reported lower levels of sales in recent months, and this is expected to help normalise inventory levels in the cutting centers. In addition, anticipated mine closures over the next 12 – 18 months will also help to establish a better supply and demand balance in the market. More importantly, consumer confidence and spending, particularly in the US, which makes up for 40 – 50% of the overall diamond jewelry market, is still strong.

[View release](#)

Agnico Eagle reports third quarter results

Agnico Eagle Mines Limited reported quarterly net income of \$76.7 million, or \$0.32 per share, for the third quarter of 2019. This result includes non-cash foreign currency translation losses on deferred tax liabilities and non-recurring tax adjustments of \$8.3 million (\$0.04 per share), derivative losses on financial instruments, mark-to-market and other adjustments of \$3.8 million (\$0.02 per share) and non-cash foreign currency translation gains of \$1.3 million (\$0.01 per share). Excluding these items would result in adjusted net income¹ of \$87.5 million or \$0.37 per share for the third quarter of 2019. In the third quarter of 2018, the company reported net income of \$17.1 million or \$0.07 per share.

Included in the third quarter of 2019 net income, and not adjusted above, is non-cash stock option expense of \$3.4 million (\$0.01 per share).

In the first nine months of 2019, the company reported net income of \$141.5 million, or \$0.60 per share. This compares with the first nine months of 2018, when net income was \$67.0 million, or \$0.29 per share.

In the third quarter of 2019, cash provided by operating activities was a record \$349.2 million (\$275.3 million before changes in non-cash components of working capital), as compared to the third quarter of 2018 when cash provided by operating activities was \$137.6 million (\$155.0 million before changes in non-cash components of working capital).

In the first nine months of 2019, cash provided by operating activities was \$624.2 million (\$603.5 million before changes in non-cash components of working capital), as compared to the first nine months of 2018 when cash provided by operating activities was \$465.4 million (\$495.1 million before changes in non-cash components of working capital).

The increase in net income and in cash provided by operating activities during the third quarter of 2019 compared to the prior year period was mainly due to higher gold sales volumes and higher realized gold prices, partially offset by the contribution of production costs from Meliadine, which achieved commercial production in May 2019. Higher gold sales were primarily driven by the contribution of a full quarter of commercial production from the Meliadine mine, partially offset by expected lower throughput levels at Meadowbank as the mine transitioned to the Amaruq satellite deposit. The increase in net income and in cash provided by operating activities in the first nine months of 2019 compared to the prior year



Shift change at Meadowbank. Agnico Eagle photo

period was mainly due to higher realized gold prices, partially offset by slightly lower gold sales volume (excluding pre-commercial production ounces at Meliadine and Amaruq) and the contribution of production costs from Meliadine. Lower gold sales were largely due to decreased production as a result of mill maintenance shutdowns at LaRonde and Kittila in the second quarter of 2019 and expected lower throughput levels at Meadowbank as described above.

"With record performance at several of our operations and the ongoing ramp up of our two new mines in Nunavut, we achieved record quarterly gold production in the third quarter of 2019. As expected, this strong result, combined with the completion of the extensive construction spending program in Nunavut, resulted in the generation of substantial free cash flow in the quarter," said Sean Boyd, Agnico Eagle's Chief Executive Officer. "With the expectation of growing production and strong free cash flow generation, we are in a good position to continue to invest in our project pipeline, improve our financial flexibility and grow our dividend. We are pleased to announce a 40 percent increase in our quarterly dividend," added Mr. Boyd.

1 Adjusted net income is a non-GAAP measure. For a discussion regarding the company's use of non-GAAP measures, please see "Note Regarding Certain Measures of Performance".

Third quarter of 2019 highlights include:

- Record quarterly gold production
- A return to free cash flow generation in the third quarter of 2019
- Amaruq declared commercial production
- Production guidance increased for 2019
- Dividend increased by 40

See the full [release](#) for more details including:

- Exploration drilling continues to advance minesite and pipeline projects
- Third Quarter Financial and Production Highlights
- Cash Position Growing, Resulting in Improved Financial Flexibility
- Capital Expenditures
- 2019 and 2020 Production Guidance
- Dividend Reinvestment Plan

Avalon receives final Cheetah Resources payment for Nechalacho resources

Avalon Advanced Materials Inc. has now received the final installment payment of the [\\$5 million purchase price from Cheetah Resources](#) Pty Ltd. for the near-surface resources on the Nechalacho rare earth elements property at Thor Lake near Yellowknife, NWT, Canada. The parties are now working towards finalization of the terms of a co-ownership agreement that will allow Cheetah to move forward with development of the near-surface rare earth resources in the T-Zone deposit in collaboration with Avalon.

Since the original purchase agreement was entered in June 2019, Avalon managed a \$900,000 summer work program on the North T deposit for Cheetah involving core re-logging and

sampling, followed by an 800 metre, 19 hole diamond drilling program completed in September-October.

The work program also included shipping of a 75 tonne stockpiled bulk sample for testwork to confirm the sensor-based ore-sorting process being developed for the unique coarse grained quartz-bastnaesite mineralization present in the upper part of the T-Zone deposit.

The diamond drilling results will allow preparation of a new resource estimate for the T-Zone which, combined with process testwork and additional environmental assessment work, will define the model for proceeding with pilot scale development of the T-Zone rare earth (bastnaesite) resource in 2020.

Commented Avalon President & CEO, Don Bubar, “With all the recent concern in the United States about security of supply of rare earths and other critical minerals outside China, this program represents a very timely opportunity to initiate a new rare earths supply chain in North America.”

Geoscience Forum approaching!

The 47th Annual Yellowknife Geoscience Forum, the North’s largest combined trade show and conference, will be held November 19-21, 2019 in Yellowknife. For on-line delegate registration, click [here](#).

Talks and poster displays will be held at the Capitol Theatre. For details visit www.geoscienceforum.com.

And don’t forget to check in early if you can! Check-in is Monday, November 18 from 1 PM to 4 PM at the Capitol Theatre.

The Charles Camsell Lecture features Dr. Grant Zazula who will present *Yukon’s fossil rush: Ice Age mammals from Canada’s north*. This free public event, sponsored by Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists (NAPEG), will be held Wednesday, November 20, 7:30 PM at the Prince of Wales Northern Heritage Centre.

The trade show, open to the public from 10 AM to noon on Thursday, November 21, will be held at the Ed Jeske Arena in the Multiplex.

The Geoscience Forum is an initiative of the NWT & Nunavut Chamber of Mines and the Government of the Northwest Territories department of Industry, Tourism and Investment.

Contact Cheryl Wourms at 867 873 5281 or conference@miningnorth.com.

Gahcho Kué wins Yellowknife Chamber Of Commerce health and safety award

Operation also won top business safety award in 2016

For the second time in four years, Gahcho Kué Mine has received the Workplace Health and Safety Award from the Yellowknife Chamber of Commerce. The award was presented on October 25, at the 2019 Business Awards Gala.

The award recognizes an organization that has shown leadership through its commitment to improving its health and safety management practices or implemented a new, unique idea to create a safer, healthier work environment. It was sponsored by the Workers Safety and Compensation Commission (WSCC) of the NWT and Nunavut. Gahcho Kué Mine also received the award in 2016. “This award speaks to the dedication of all our employees to putting safety first,” said Lyndon Clark, Gahcho Kué Mine General Manager, who accepted the award.

“This year we launched safety and wellness programs at the mine that are having a true impact on all of our employees. We have celebrated safety champions from frontline employees to the outstanding volunteers of our mine rescue team, who this year won the NWT/NU Mine Rescue Competition Best Surface Overall title, among others, in June, and the best surface overall title at the National Western Region Mine Rescue Competition in September.”

During 2019, the mine launched its Brothers’ & Sisters’ Keepers Program which encourages employees to focus on their personal safety and to encourage colleagues to do the same. Positive safety behaviours or actions are also acknowledged by supervisors. Since the program launched, the number of injuries requiring first aid are down 16% and the number of medical aid incidents has dropped 42% - success that the team attributes to the program.

De Beers Group was proud to sponsor the Customer Service Award at the Business Awards Gala, won by Roy’s Audio Video. [View release](#)



*Gahcho Kué Mine staff at the Yellowknife Chamber of Commerce Business Awards Gala in Yellowknife.
De Beers Canada photo*

Exploration & development news briefs

Auryn Resources Inc. announced results from the seven-hole, 2,700 meter [summer drill program at Committee Bay](#). The company drilled a new gold-bearing hydrothermal system and made significant progress in geophysical targeting. At the Shamrock target Auryn intersected 30 meters of 0.67 g/t gold, including 1.5 m of 5.03 g/t gold, which is characterized by quartz veining within gabbroic rocks (Figure 1). The Shamrock target is located 2.5 kilometers to the southwest of the Aiviq target where the company drilled 10.5 meters of 1.22 g/t gold this summer. The 2019 and 2018 drill programs have delineated 15 kilometers of strike length along a regional fault zone with gold mineralization identified at the Aiviq, Shamrock and Kalulik targets (Figure 3 in the release). Auryn believes that this regional shear zone has excellent potential to host high-grade mineralization due to the high-grade boulder samples sourced from the shear zone corridor.

One of the most significant results of this year's exploration program was Auryn's advancement in targeting high-grade mineralization. With data available from both higher and lower grade gold-bearing hydrothermal systems, our technical team has identified that very high conductivity responses appear to be a critical aspect for targeting high-grade mineralization, as observed at the Three Bluffs deposit (Figure 4). Going forward, conductivity and chargeability couplets, generated through the use of ground-based geophysical IP surveys and existing airborne geophysical data, will be used to produce potential future drill targets. These targets will be delineated in areas where high conductivity responses, high chargeability responses and gold-in-till anomalies coincide.

The 2019 summer drill program comprised of a combination of both machine learning derived targets and traditional geologist generated targets. A total of three machine learning derived targets were tested and they were found to be characterized by altered ultra-mafic rocks, which have a very similar magnetic and conductivity signature to gold-bearing sulphidized banded iron formations. Auryn's technical team will continue to work with Computational Geosciences Inc. to refine the machine learning technology using this year's results and additional data that has been collected.

Blue Star Gold Corp. reports [initial five drill hole results from Hood River](#) concessions in Nunavut. Highlights:

- Drilling confirms high-grades of surface samples with first intersections of;
- 31.1 grams/tonne gold ("g/t Au") over 1.0m,
- 15.37 g/t Au over 5.0m, and
- 6.92 g/t Au over 3.0m
- Eleven core holes completed for a total 1,540 meters ("m")
- Target mineralization intersected in all holes

The program that focused on the North Fold Nose (the "NFN") gold zone concluded on September 29th and consisted of eleven completed holes for approximately 1,540 meters of core. A prospecting and sampling program ran in parallel with the drilling resulted in 698 samples being sent for analyses.

Blue Star Gold Corp. announces that Dr. Georg Pollert, of Karmeliterweg 12, 13456 Berlin, Federal Republic of Germany, a principal shareholder and director of Blue Star, has filed an early warning report on SEDAR in connection with three (3) [previous share and warrant acquisitions](#) as follows:

- 6,000,000 common Shares ("Shares") and 3,000,000 share purchase warrants on April 18, 2016;
- 1,500,000 Shares and 750,000 Warrants on April 20, 2018; and
- 1.11,500,000 Shares and 5,750,000 Warrants on May 4, 2018.

The Triggering Acquisitions were all carried out pursuant to non-brokered private placements.

Nighthawk Gold Corp. is pleased to provide the results for five drillholes (2,862 metres) completed on [Zones 1.5 and 2.0 of the Colomac](#) Main Sill, part of the Colomac Gold Project centrally located within its Indin Lake Gold Property, Northwest Territories, Canada. Drilling has provided additional evidence for the merger of high-grade Zone 1.5 with the northern part of Zone 2.0 and extended this broad panel of mineralization to new depths below previously reported intersections. Current drilling has established continuity over significant widths with a pathway for expansion along strike and to depth. The Company has now reported results for 49 drillholes (18,902 metres) of the 91 drillhole (35,018 metre) 2019 program at Colomac.

Three of the five holes were drilled to test the deposit's depth extension marginal to the Zone 1.5 - Zone 2.0 boundary fault, a subvertical northeast-southwest (070o) fault that offsets the two zones creating a slight "dogleg" in the localized strike of the sill (Figure 1). All holes intersected extensive mineralization with C19-35 returning 124.50 metres of 1.12 gpt Au, including 13.50 metres of 3.60 gpt Au, and including 4.75 metres of 7.64 gpt Au; and hole C19-39 returning 118.50 metres of 1.57 gpt Au, including 32.50 metres of 2.62 gpt Au, and including 7.75 metres of 5.10 gpt Au (see Table 1 in release).

Nighthawk Gold Corp. provides [additional drill results from its Treasure Island Gold Project](#), located 11 km north of the Company's flagship Colomac Gold Project within the northern portion of its 100% owned Indin Lake Gold Property, Northwest Territories, Canada. Results are reported for eight holes (2,328 metres) recently completed at Treasure Island (Table 1, Figure 1). Drilling intersected broad zones of mineralization with internal higher-grade intervals, similar to previously reported

intercepts and a positive sign for continued exploration success as Nighthawk looks to advance this target in the coming years. Assay results for the nine remaining holes (2,798 metres), completed at Treasure Island will be released once available.

Treasure Island Drilling Highlights:

- Hole T19-02 intersected an upper section of 6.50 metres of 10.08 grams per tonne ("gpt"), gold ("Au"), including 4.00 metres of 15.94 gpt Au, and a deeper intersect of 22.40 metres assaying 1.27 gpt Au, including 6.00 metres of 3.04 gpt Au.
- T19-02B intersected 22.25 metres of 2.83 gpt Au, including 8.00 metres of 6.01 gpt Au.
- T19-04 intersected 26.50 metres of 1.36 gpt Au, including 6.55 metres of 3.44 gpt Au.
- Drilling to-date has traced the Main Zone continuously for over 400 metres along strike, from surface to upwards of 200 metres vertical depth where it remains open. Results are forthcoming on infill drilling between the Main Zone and the East Zone to determine if similar mineralization extends upwards of 700 metres in strike. The system remains open to the east and west.
- Nineteen holes (5,816 metres) were drilled at Treasure Island in 2019 of which results for ten holes have now been reported. Assay results for the remaining nine holes will be released as they become available.

Osisko Metals Incorporated announced assay results from 8 recently completed drill holes in the N204 Zone, the easternmost deposit in the portfolio, at its wholly owned Pine Point Mining Camp ("PPMC") in the Northwest Territory. Drill hole N204-19-PP-008 intersected 5.78% zinc and 2.08% lead over 9.00 metres and hole N204-19-PP-001 intersected 6.73% zinc and 1.57% lead over 3.00 metres (see N204 Surface Map).

Additionally, the results of re-assaying and re-logging 22 historical holes from the Cominco Limited era between 1964 and 1988 are reported. Of significance are four holes with unsampled mineralization including historical drill hole N204-240 that intersected 4.08% zinc and 1.13% lead over 9.15 metres that is located approximately 100 meters outside of previously modelled resources. Other highlighted intersections are noted in Table 1 below.

All intersections are hosted within laterally continuous, stratabound layers within tabular mineralization of the N204 Zone located between 8 to 50 metres vertical depth. The focus of the program in this area is to confirm and expand historical resources, reduce drill spacing, and collect samples for metallurgical tests. Drill hole composites and location details are provided in Tables 2 & 3 on the full release.

Osisko Metals Incorporated is pleased to announce that it has entered into a [binding term sheet](#) with Karst Investments LLC ("Karst") and its owners to acquire a 100%

interest in Karst, which holds a 3% net smelter returns royalty on the mineral leases comprising the Pine Point Project (the "Karst Purchase"). Osisko Metals will acquire Karst in exchange for an aggregate consideration of US\$8.5 million in cash and 2 million common shares of the Corporation.

Osisko Metals will, within 60 days, enter into a definitive purchase agreement with Karst and its owners providing for the Karst Purchase.

Following the closing of the Karst Purchase, the Pine Point Project will not be subject to any other royalties, back-in rights, payments, or other agreements or encumbrances other than the territorial royalty (calculated as a tax but called a royalty by the NWT government).

Osisko Metals Incorporated announced [first drilling results from the Fall 2019 drill program at Pine Point](#).

Twenty-six exploration drill holes were completed in the L-37 and N-38 areas within the East Mill Zone. Highlights include drill hole L37-19-PP-001 that intersected 8.68% zinc and 2.45% lead over 6.40 metres and drill hole L37-19-PP-011 intersected 6.43% zinc and 0.87% lead over 14 metres. All intersections are within flat-lying tabular-style deposits and are located between 7 to 36 metres vertical depth, adding more near-surface, high grade mineralization in proximity to the company's current Inferred Mineral Resource Estimate (MRE). Other highlighted intersections are noted in Table 1 below. (See East Mill L37 Surface Map in full release).

The focus in this area of the East Mill Zone is to connect the mineralization between two existing tabular deposits. Drill hole composites and location details are provided in Tables 2 & 3 in the release.

To increase the value of the Cominco Ltd. historical drill results (dating back to the 1960's), Osisko Metals has also commenced a relogging and assaying program of the extensive historic core farm that is available on the property (10,893 drill holes with over 702,300 metres of available core). At that time Cominco did not assay what is now, in today's economic context, considered to be significant mineralization. This initiative will allow the company to cost-effectively enhance the ongoing exploration program by assaying mineralization noted in a number of historical holes. This data will aid in identifying new exploration targets and in verifying the historical dataset.

Osisko Metals Incorporated announced it has completed a staking initiative that will more than [double its mineral claim holdings for the Pine Point Project](#). A total of 84 claims were staked, covering a surface area totaling 24,340 hectares and increasing the Project's total surface area to 46,553 hectares or 465km². Registration of the claims is pending (see Claim Map.)

The staking initiative includes mineral rights in the areas located adjacent to the company's existing mineral claims and leases in the central portion of the Pine Point Mining

Camp where Cominco Limited mined for 25 years. The additional staked claims cover adjacent areas with excellent exploration potential, historical resources (reported by Cominco Limited,) and haulage road infrastructure. This significantly advances the property in that it is a larger, more contiguous project with better access and with more exploration and development upside.

Currently, Osisko Metals is updating the 2018 Inferred Mineral Resource Estimate ("MRE") that contained 38.4 Mt grading 4.58% zinc and 1.85% lead, making it the largest near-surface, pit-constrained zinc resource in Canada. A copy is available on SEDAR (www.sedar.com) under the Osisko Metals' issuer profile.

Additional 2018-2019 drill holes drilled by the company will be incorporated into the database and should allow for the conversion of a portion of the Inferred resources to the Indicated category in certain areas where there is sufficient drilling. The company is now also evaluating additional underground mineralization located adjacent to the bottom of some of the modelled open pits for possible incorporation in the updated MRE. The additional staked claims also host historical resources reported by Cominco Limited that will be evaluated in a similar manner as the current MRE with the objective of converting these to Inferred Resources under NI43-101 guidelines. Estimated release time for the updated MRE is mid-November 2019.

Seabridge Gold Inc. announced it has entered into a [controlled equity offering sales agreement](#) dated October 11, 2019 with Cantor Fitzgerald & Co. and B. Riley FBR, Inc. Pursuant to the Sales Agreement, the company will be entitled, at its discretion and from time-to-time during the term of the Sales Agreement, to sell, through the Lead Agent, such number of common shares of the company (the "Common Shares") that would result in aggregate gross proceeds to the company of up to US\$40 million (the "Offering" or "ATM Facility"). Sales of the Common Shares, if any, will be made in "at the market distributions", as defined in National Instrument 44-102 – Shelf Distributions, directly on the New York Stock Exchange ("NYSE") or on any other existing trading market in the United States. No offers or sales of Common Shares will be made in Canada through the facilities of the Toronto Stock Exchange or other trading markets

With the company's recent completion of a non-brokered C\$20.4 million equity financing, there is no immediate intent to utilize the ATM Facility. The program can be in effect until Seabridge's current and unused C\$100 million Shelf Registration Statement expires in June 2021. Net proceeds from the ATM Facility, if any, will be used to advance non-flow through eligible exploration and development of the company's projects, potential future acquisitions, and for working capital and general corporate purposes.

Stornoway Diamond Corporation announced the Corporation and its subsidiaries, Stornoway Diamonds (Canada) Inc., Ashton Mining of Canada Inc. and FCDC Sales and Marketing Inc. have [obtained an approval and vesting order](#) from the Superior Court of Quebec (Commercial Division) issued in connection with the proceedings under the Companies' Creditors Arrangement Act. Upon conclusion of the Transactions, Stornoway will no longer have any operating assets or active business.

TerraX Minerals Inc. announced a first mineral resource estimate on its 100% owned Yellowknife City Gold Project, located 12 kilometers from the city of Yellowknife and 7 kilometers from the former Giant Mine. The classification of the mineral resource estimate was completed in accordance with the Canadian Institute of Mining, Metallurgy and Petroleum ("CIM") Definition Standards incorporated by reference in National Instrument 43-101 ("NI 43-101").

The Inferred resource estimate of 735,000 ounces consists of:

- A pit constrained Inferred resource of 11.6 million tonnes averaging 1.4 g/t for 523,000 ounces of contained gold
- An underground Inferred resource of 1.2 million tonnes averaging 5.7 g/t for 212,000 ounces of contained gold

Gerald Panneton, Executive Chairman of TerraX stated: "This first mineral resource for the Yellowknife City Gold Project is a major milestone in the project development. To date, drilling has barely scratched the surface of the property and already we are having exploration success at Sam Otto and Crestaurum, and elsewhere. We are planning a drilling campaign for Q1 2020 on these two main mineralized zones, where we believe the potential to increase the resources is excellent."

The mineral resource estimate includes four gold deposits: Sam Otto, Crestaurum, Barney and Mispickel, which are all within a 3 kilometer radius. It incorporates the results from 463 drill holes totaling 90,751 meters, from which 201 drill holes totaling 42,447 meters were completed by TerraX from 2014 to 2019. In general, the drilling is variably spaced reflecting different mineralization styles and ranges from 25 to 100 meters apart.

The mineral resource estimate was prepared by Dr. Allan Armitage, P.Geol., from SGS Geological Services ("SGS"). SGS used Geovia Gems software to construct mineralized wireframes for each zone and then interpolated tonnage and grade into block models constrained by the mineralized wireframes and used inverse distance squared (ID2) interpolation. Block sizes were 5 meters X 2 meters X 2 meters for Crestaurum and 5 meters X 2 meters X 2 meters for Barney to generate underground estimates, and 5 meters X 5 meters X 5 meters for pit constrained estimates on Sam Otto and Mispickel. Appropriate interpolation parameters were generated for each deposit based on the mineralization style and geometry.

The pit shells were created using Whittle pit optimization software and applying the following optimization parameters: US\$1,300 gold price; US\$2.20/tonne for mining cost; US\$16.00/tonne for processing and G&A costs; 90% metallurgical recovery; 5% dilution (external); 5% mining loss; and 55° pit slopes (the deposits occur in areas of extensive outcrop with negligible overburden).

The mineral resources estimate is summarized in the following table. A supporting NI 43-101 Technical Report will be filed on SEDAR at www.sedar.com within 45 days of this release.

Member news releases this past month

- 4 November 2019 [TerraX Announces First Mineral Resource Estimate for Yellowknife City Gold Project: 735,000 Inferred Ounces](#)
- 1 November 2019 [Blue Star Gold Corp. principal shareholder and director files early warning report in connection with previous share and warrant acquisitions](#)
- 31 October 2019 [Nighthawk extends broad mineralized zones to new depths at Colomac](#)
- 31 October 2019 [TMAC announces Q3 2019 financial results](#)
- 30 October 2019 [Avalon receives final payment from Cheetah Resources for acquisition of Nechalacho resources](#)
- 29 October 31, 2019 [Gahcho Kué mine Wins YK Chamber Of Commerce workplace health & safety award](#)
- 28 October 2019 [Blue Star reports second round of drill hole results from Hood River concessions, NU](#)
- 28 October 2019 [Osisko Metals expands known mineralization at N204 Zone](#)
- 25 October 2019 [Auryn drills gold-bearing hydrothermal system at Committee Bay](#)
- 24 October 2019 [TMAC initiates Madrid North underground portal](#)
- 23 October 2019 [Agnico Eagle reports third quarter results](#)
- 21 October 2019 [Osisko Metals intersects 11.13% zinc+lead over 6.40 metres at Pine Point](#)
- 17 October 2019 [Avalon participated in trade and investment mission to Japan, Korea and China](#)
- 17 October 2019 [Mountain Province Diamonds announces third quarter 2019 production and sale results, provides Q3 conference call details](#)
- 15 October 2019 [TMAC continues to intersect high-grade at Doris BTD extension zone](#)
- 15 October 2019 [TMAC announces Q3 operating results](#)
- 15 October 2019 [Osisko Metals announces agreement to purchase 3% NSR royalty on Pine Point Project](#)
- 11 October 2019 [Seabridge Gold announces agreement for at-the-market offering](#)
- 10 October 2019 [Phase 2 drilling at Sam Otto delivers 25.5m of 1.26 g/t gold](#)
- 9 October 2019 [Blue Star reports initial five drill hole results from Hood River concessions in Nunavut](#)
- 8 October 2019 [Nighthawk intersects 6.50 metres of 10.08 Gpt Au \(uncut\) including 4.00 metres of 15.94 Gpt Au at Treasure Island](#)
- 7 October 2019 [Agnico Eagle achieves commercial production at the Amaruq satellite deposit](#)
- 7 October 2019 [Stornoway granted approval and vesting order](#)
- 7 October 2019 [Osisko Metals announces staking of additional mineral claims at Pine Point](#)
- 4 October 2019 [Fortune Minerals provides NICO Co-Au-Bi-Cu project technical report update](#)



Sabina's winter ice road forward camp, courtesy Sabina Gold & Silver

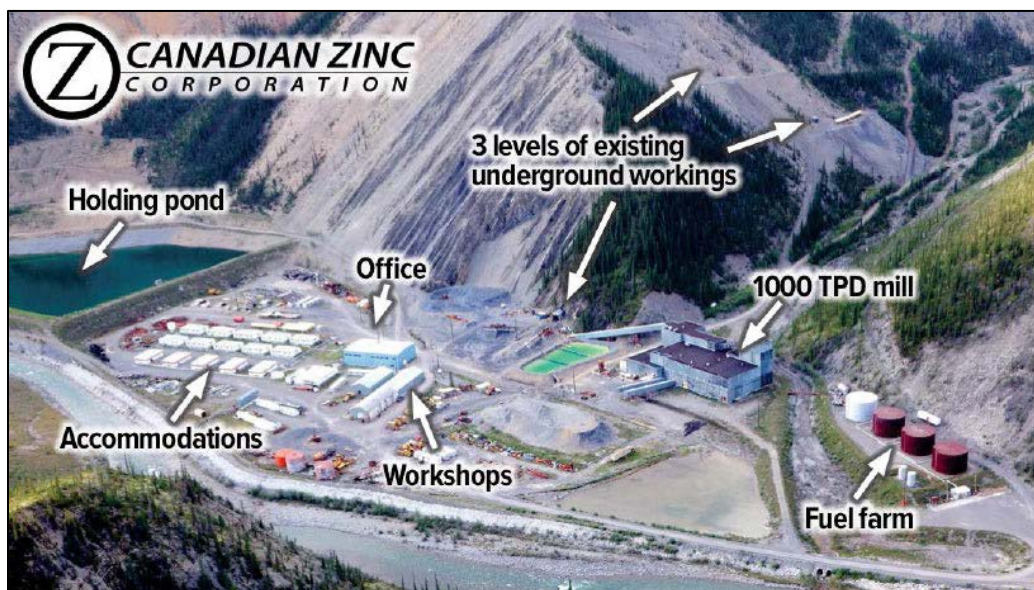
Chamber of Mines' Social Media

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Calendar of Events

- **47th Annual Yellowknife Geoscience Forum** Tuesday, November 19 - Thursday, November 21, 2019 and is a joint initiative of the NWT & Nunavut Chamber of Mines and the NWT Government, Industry, Tourism and Investment. [Click here for the schedule of events](#). For additional information, contact Conference Coordinator, Cheryl Wourms at the NWT & Nunavut Chamber of Mines, conference@miningnorth.com.
- **7th Annual Energy and Mines World Congress** takes place Dec 2-4 in Toronto and features ground-breaking case studies and sessions on renewables, LNG, small modular reactors, green hydrogen and electrification for mines. The NWT & Nunavut Chamber of Mines is proudly supporting this event again this year for its focus on reliable, affordable and low-carbon energy for remote and grid-tied mines. This year's event also features a full-day on Decarbonizing Material Movement - Towards Zero-Emissions Mine Fleets focusing on key developments electrification, hydrogen fuel cells, trolley assist and automation. Mining operators have the option to apply for a limited number of guest passes. Click here to view the form or enter miningnorth20 to receive 20% off registration.
- **AME Roundup 2020** – Mark your calendars for AME mineral exploration Roundup 2020, January 20-23 at the Vancouver Convention Centre. For schedule at a glance, click [here](#).
- **Northern Lights 2020**, is a high-profile business and cultural showcase of Nunavut, Nunavik, and Labrador/Nunatsiavut hosted by the Baffin Regional Chamber of Commerce and the Labrador North Chamber of Commerce. It will be held at the Shaw Centre in Ottawa, Ontario, February 5 - 8, 2020. The four-day event is expected to attract 200 exhibitors and 1,200 delegates. For the schedule, click [here](#).



Prairie Creek, NWT's next Zn-Ag-Pb mine, Courtesy NorZinc

Welcome new members!

Please join us in welcoming the newest Chamber of Mines members!

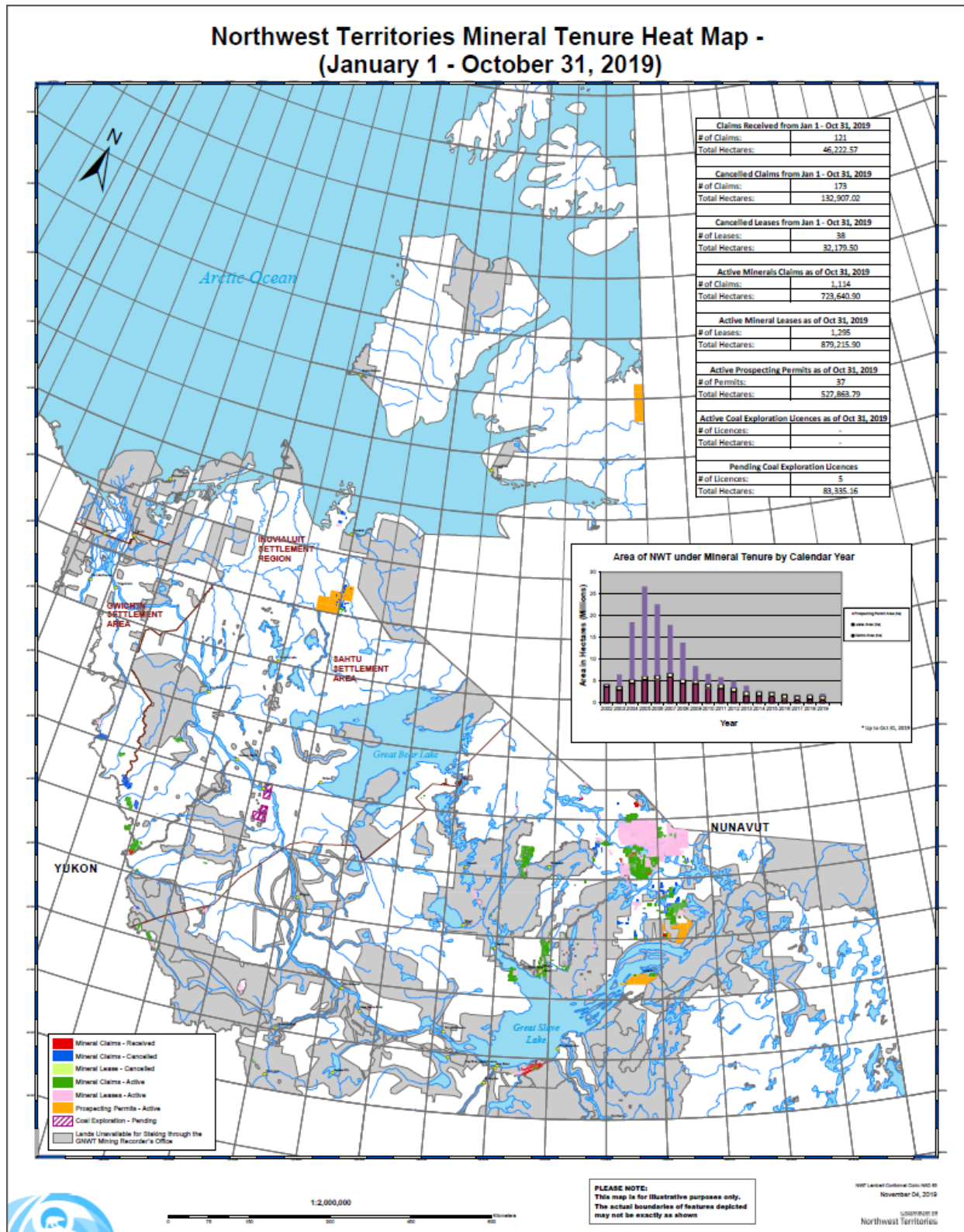
- **Aurora Wood Pellets Ltd.**, located in Hay River, NT, is a transportation, structure supplier, and expediting company which has developed a fully functional transloading rail siding located at kilometre 4 on the Yellowknife Highway. Contact President and CEO Brad Mapes brad@awpltd.com; 867 875 7470.
- **Bassett Petroleum**, located in Hay River, NT, is an Indigenous-owned energy services, transportation, and products supplier company which sells and delivers fuel, propane, and lubricants. Contact General Manager Norman Bassett, nbassett@bassettcompanies.com; 867 874 8500.
- **ECO Canada (Environmental Careers Organization of Canada)**, located in Calgary, AB, is a not for profit education/training organization working with environmental professionals across Canada with a focus on certifying and training environmental professionals in mining and exploration. Contact Events and Training Coordinator Hannah Williamson, hwilliamson@eco.ca; 403 233 0748.
- **Festival Promotions Inc.**, located in Kanata, ON, provides various promotional items including tradeshow displays and clothing. Contact is Account Manager Patrick Hall, patrick@festival.net; 613 723 7868.
- **NWT Construction**, located in Yellowknife, NT, is a construction company and equipment supplier which also provides project management. Contact Business Development and Indigenous Relations Manager Michael Cardinal, michael.cardinal@ecltd.ca; 867 920 4844.
- **Qikiqtani Industry Ltd.**, located in Iqaluit, NU, is an Indigenous-owned catering services and logistics services provider. The company provides catering, labour, and housekeeping services and clients include the Mary River Mine. Contact Senior Project Manager Maya Jelali, mjelali@qcorp.ca; 867 975 2242.
- **Sodexo**, located in Chestermere, AB, is a catering, construction and equipment provider company providing turnkey camp solutions and camp related services. Contact is Director Business Development Yannick Bedard, yannick.bedard@sodexo.com; 403 909 2352.



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Northwest Territories Mineral Tenure Map – to October 31



Mines & promising Northwest Territories mine projects

The following table describes leading mineral development projects in the NWT.

Project Name	Owner(s)	Commodity	Description	Status
Ekati Mine	Dominion Diamond Mines ULC , and Dr. Stewart Blusson	Diamonds	Canada's first and largest diamond mine, 310 km. NE of Yellowknife. Open pit and underground. Mine life potentially to 2041. Workforce in 2018, 1,625. The Ekati mine consists of two joint ventures, the core zone joint venture and the buffer zone joint venture, in which the company has interests of 88.9% and 72.0%, respectively. Reserves at 31 January 2017 were 68.9 million tonnes at 1.5 carats per tonne for 105.4 million carats. Inferred mineral resources were 20.6 million tonnes at 1.0 carats per tonne for 19.8 million carats. Additionally, Fox Deep indicated and inferred resources of 51.0 million tonnes at 0.4 carats per tonne for 18.7 million carats.	Media release, 22 March 2019 Canadian Championship Dog Derby and Dominion Diamond announce race schedule
Diavik Mine	Rio Tinto (operator) & Dominion Diamond Mine ULC	Diamonds	Canada's largest producer of diamonds, 300 km NE of Yellowknife. Mine life to 2025. Became all underground mine in 2012. Workforce in 2018, 1,113. New A21 open pit development budgeted at US\$350m over 4 years. A21 grand opening celebrated August 2018. Reserves at Dec 31, 2018 were 11.5 million tonnes at 2.4 carats/tonne for total of 27.4 million carats.	Media release, 1 October 2018 Diavik Stars of the Arctic dazzle in rough diamond tender
Gahcho Kué Mine	De Beers Canada Inc (51% and operator) and Mountain Province Diamonds Inc. (49%)	Diamonds	Located 280 km NE of Yellowknife, NWT. Open pit mine with life of 12 years. Mine reached commercial operation in Q1 2017. Workforce in 2018, 527. Plan is for three open pits to mine 5034, Hearne and Tuzo ore bodies producing average of 4.5 million carats/year. Mining started with 5034 orebody and production from Hearne began in April 2018. Reserves at December 31, 2018 (production commenced Q3 2016) were 31.1 million tonnes at 1.54 carats per tonne for 47.9 million carats. Initial mine plan extends to fiscal year 2028.	Media release October 29 Gahcho Kué mine Wins Yellowknife Chamber Of Commerce workplace health and safety award Media release 10 September 2019 Gahcho Kué mine rescue team wins overall national western regional title for surface mining
Prairie Creek	NorZinc Ltd.	Zinc-lead-silver	Proposed underground mine 120 km W of Ft. Simpson. Estimated mine jobs: 220 All permits now in place to construct and operate the mine. Feasibility Study completed in 2017 supports 15-year mine life. Subject to completion of financing, and 2.5-year construction phase, production proposed for mid-2020. In 2017, the Mackenzie Valley Environmental Impact Review	Media release, 30 September 2019 NorZinc announces new financing

			Board recommended approval of the proposed all season road. Over the past eight years Canadian Zinc has successfully completed numerous environmental assessments related to exploration and development of the Prairie Creek Mine. Canadian Zinc has obtained all the significant regulatory permits and social licences required to complete construction and development and undertake mining and milling at Prairie Creek, including construction and use of a winter access road to the mine site.	
NICO	Fortune Minerals Limited.	Cobalt-gold-bismuth-copper	Proposed open pit and underground mine located 50 km NE of Whatì. Estimated mine jobs: 150. Mine life, 20 years. In March 2018, The Mackenzie Valley Environmental Impact Review Board has recommended that the Tlicho all-season road be approved. The approval is subject to measures designed to mitigate potential environmental, social, and cultural impacts. The Government of the Northwest Territories, Department of Transportation and Tlicho Government received this conditional approval on March 29, 2018, enabling construction of the 97-kilometre Tlicho Road to connect the community of Whatì to the territorial highway system.	Media release 4 October 2019 Fortune Minerals provides NICO cobalt-gold-bismuth-copper project technical report update
Kennady North	Mountain Province Diamonds Inc.	Diamonds	Kennady North project comprises 13 leases and claims immediately to north and west of 4 leases controlled by the Gahcho Kué Joint Venture (see above). Project aims to identify a resource along the Kelvin – Faraday kimberlite corridor of between 12 and 15 million tonnes at a grade of between 2 and 2.5 carats per tonne and to identify new kimberlites outside of the corridor. The Kelvin – Faraday corridor is a target for further exploration. Potential quantity is conceptual as there has been insufficient drilling to define a mineral resource and it is uncertain if further exploration will result in target being delineated as a mineral resource.	Media release 17 October 2019 Mountain Province Diamonds announces third quarter 2019 production and sale results, provides Q3 conference call details
Indin Lake	Nighthawk Gold Corp	Gold	Nighthawk controls over 90% of the prospective Indin Lake Greenstone Belt in this historic gold camp with a total ground position now comprising 930 sq km, approximately 220 km north of Yellowknife, NT. The Indin Lake Greenstone Belt is one of Canada's most underexplored gold camps. The property contains 14 known gold deposits and showings, 3 are historic mines (eg Colomac)	Media release 31 October 2019 Nighthawk extends broad mineralized zones to new depths at Colomac Media release 8 October 2019 Nighthawk intersects 6.50 metres of 10.08 Gpt Au (uncut) including 4.00 metres of 15.94 Gpt Au at Treasure Island

Pine Point	Osisko Metals Incorporated	Lead-zinc	Proposed open pit mine east of Hay River, NT. 10 open pits mined sequentially with 321 jobs. PEA quotes 13-year mine life. Osisko Metals has begun active exploration to advance the project. The objective of the 2018 drill program is to upgrade approximately 50 million tonnes of unclassified near-surface historical resources (Cominco Ltd.) to NI43-101 Inferred Mineral Resources as quickly as possible in areas amenable to open pit mining. The 2018 program consists of approximately 700 drill holes (323 now completed) within the Main Trend, a 20- kilometre long, portion of the PPMC that is located on the south shore of Great Slave Lake in the NWT, near infrastructure and paved highway access and with 100km of haulage roads already in place.	<p>28 October 2019 Osisko Metals expands known mineralization at N204 Zone</p> <p>Media release 21 October 2019 Osisko Metals intersects 11.13% zinc+lead over 6.40 metres at Pine Point</p> <p>Media release 15 October 2019 Osisko Metals announces agreement to purchase 3% NSR royalty on Pine Point Project</p> <p>Media release 7 October 2019 Osisko Metals announces staking of additional mineral claims at Pine Point</p>
Courageous Lake	Seabridge Gold Inc.	Gold	Proposed open pit mine 240 km NE of Yellowknife. 6.5 M oz proven and probable reserves in 91.0 million tonnes at 2 g/t (2016 Annual Report). Positive PFS July 2012. The FAT deposit is one of Canada's largest undeveloped gold projects. Seabridge is currently focusing on their KSM mine and other BC projects.	Media release 11 October 2019 Seabridge Gold announces agreement for at-the-market offering
Selwyn Project (Howard's Pass Project)	Selwyn Chihong Mining Ltd.	Zinc, lead	Proposed base metal mine in Yukon on NWT border and access is through NWT. Agreements signed with NWT (Sahtu) Indigenous land corporations. The project will process multiple open pit mines over an approximate 10+ year mine life and includes a mineral processing plant, tailing management facility and the required on-site infrastructure. The mine is being designed to process 38,500 tonnes per day (tpd) of ore which, after processing, is expected to result in 2,500 tpd of zinc and 600 tpd of lead concentrate, which would be trucked to the Port of Stewart for export. Selwyn Chihong estimates the proposed mine will create approximately 1500 jobs during construction and approximately 750 during operation.	<p>Selwyn Chihong Mining's proposed upgrade of a road to its lead-zinc mining project in Yukon's Selwyn Mountains will undergo an environmental assessment. Parks Canada has referred the 79km Howard's Pass Access Road (HPAR) to Environmental Assessment under the MVEIRB, which accepted the referral in July 2015.</p> <p>The HPAR was developed in the 1970s and runs from the Nahanni Range Road to the NWT-Yukon border. Passing through 2 national parks.</p> <p>Yukon media reported in Feb 2016 that Selwyn Chihong has decided to slow their project down due to the current low zinc prices and will not to take the project to the permitting stage this year. According to External Affairs VP Maurice Albert, SC has opted for a traditional drilling program and hopefully add another 10 years to the mine life.</p>
Nechalacho	Avalon Advanced Materials Inc.	Rare earth metals	Proposed underground mine 100km SE of Yellowknife. Estimated mine jobs: 200. The company remains optimistic that rare earth demand will recover sufficiently to advance the project.	Media release 30 October 2019 Avalon receives final payment from Cheetah Resources for acquisition of [some of the] Nechalacho resources

Mines & promising Nunavut mine projects

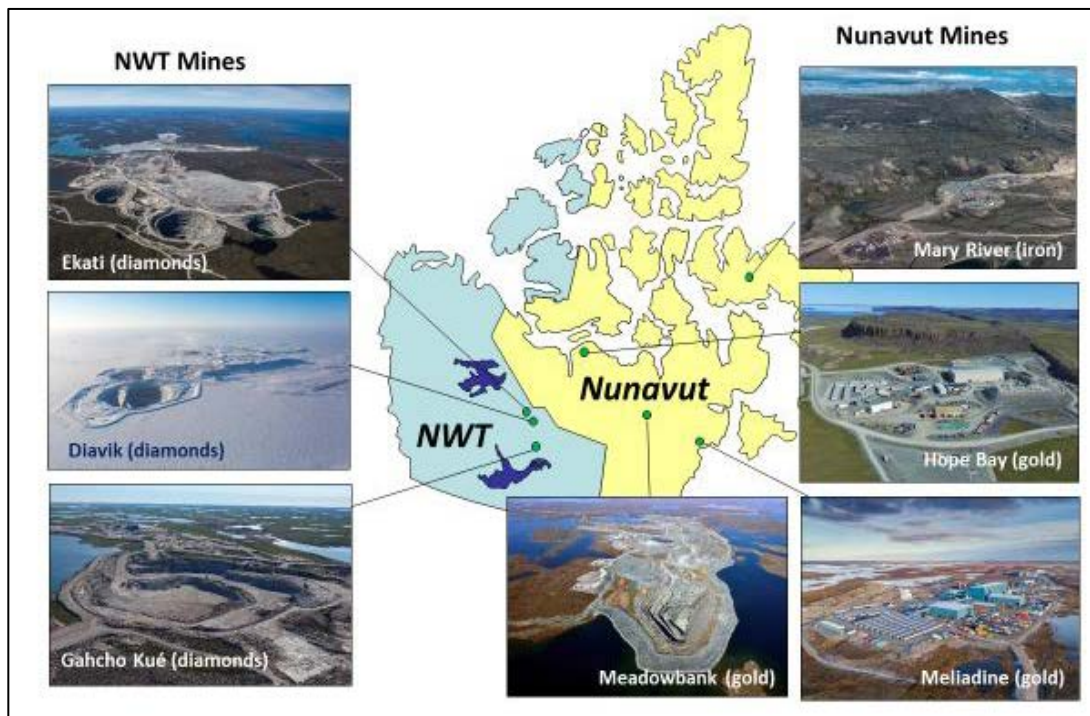
The following table describes leading mineral development projects in Nunavut.

Project	Owner(s)	Commodity	Description	Status
Meadowbank Gold Mine	Agnico Eagle Mine Ltd.	Gold	In operation since 2010. Produced its three millionth ounce gold in 2018. Open pit mine located in the Kivalliq Region, 300 km west of Hudson Bay and 70 km N of Baker Lake. Mine jobs: 1,311 PYs 50km from Meadowbank mine site Amaruq project adds 7 years to mine life; commercial production expected to be achieved late in third quarter of 2019. At the end of the second quarter 2019, a test batch of low-grade Amaruq ore was processed at Meadowbank mill confirming ore characteristics and recoveries.	Media release 7 October 2019 Agnico Eagle achieves commercial production at the Amaruq satellite deposit
Mary River Iron Mine	Baffinland Iron Mines Corporation	Iron	In operation since September 2014; Open pit mine 936 km N of Iqaluit. Mine jobs: 1,411 PYs Production from Early Revenue Phase (ERP) began September 8, 2014. The company has proposed a Phase 2 project with increased production and shipping. AANDC Minister has approved application for exemption from NPC negative conformity determination, July 2015.	Media release 17 April 2019 Baffinland employees ratify a partnership agreement with the International Union of Operating Engineers – Local 793 Media release 16 April 2019 Baffinland supports successful technical meetings for phase 2 permitting process
Hope Bay (Mine began commercial production May 15, 2017)	TMAC Resources Inc.	Gold	Gold mine 130 km S of Cambridge Bay. TMAC's property covers the majority of the Hope Bay Greenstone Belt. Workforce in 2018: 516 PYs First gold poured in first quarter 2017 and achieved commercial production in second quarter 2017.	Media release 31 October 2019 TMAC announces Q3 2019 financial results Media release 24 October 2019 TMAC initiates Madrid North underground portal Media release 15 October 2019 TMAC continues to intersect high-grade at Doris LTD extension zone Media release 15 October 2019 TMAC announces Q3 operating results
Meliadine Gold Mine (commercial production May 14, 2019)	Agnico Eagle Mines Ltd.	Gold	Meliadine mine declared commercial production on May 14, 2019. 25 km NE of Rankin Inlet. Estimated construction jobs: 1,000 Mine jobs: 1,099 PYs IIBA signed June 2015. Total capital cost ~\$830m, below \$900m forecast; mine life ~15 years. On February 15, 2017: Agnico Eagle approved Meliadine and Amaruq projects for development with production beginning in 2019. The high-grade Meliadine gold project has 3.4 million ounces of gold in proven and probable reserves* (14.5 million tonnes at .32 g/t) and a large mineral resource.	Media release 23 October 2019 Agnico Eagle reports third quarter results
Back River	Sabina Gold & Silver Corp.	Gold	Approximately 60km from Hackett River; adjacent to the Wishbone Greenstone belt. Consists of George	Media release 5 September 2019 Sabina Gold & Silver summarizes exploration results

			and Goose Lake deposits and holds significant gold resources. Estimated construction jobs: 1,600 Estimated mine jobs: 900 Sabina's Feasibility Study on its 100% owned Back River Gold Project presents a project designed on a fit-for purpose basis, with the potential to produce ~200,000 ounces a year for ~11 years with a rapid payback of 2.9 years (at a US\$1,150 gold price and a 0.80 exchange rate). Initial CAPEX of \$415 million. EA complete	and potential for resource growth at Goose property
Kiggavik	Orano Canada Inc.	Uranium	Proposed uranium mine 80 km W of Baker Lake. Estimated Construction jobs: 750 Estimated mine jobs: 600	25 July 2016, INAC, on behalf of responsible ministers for authorizing if Kiggavik Project should or should not proceed, accept NIRB's determination it not proceed at this time.
Izok Corridor Project (with High Lake & Hood River deposits)	MMG Ltd.	Copper, Zinc, Gold, Silver	High Lake is 1,710-hectare, copper-zinc-silver-gold property, 190 km ESE of Kugluktuk. Izok is high-grade zinc-copper-lead-silver deposit, 255 km SW of Kugluktuk. Estimated construction jobs: 1,140 Estimated mine jobs: 710	Media release 14 August 2019 Grays Bay Road and Port a 'game changer' for Nunavut and Izok Corridor
Chidliak	De Beers Group	Diamonds	Located 120kms NE of Iqaluit, Nunavut, and 180 km S of Pangnirtung. 74 kimberlites discovered with 8 potentially economic on 317,213-hectare site. Positive Phase One PEA, updated May 2018 highlights: <ul style="list-style-type: none"> •After-tax payback of 2.2 years •Life of mine 13 years •Resource at CH-6 and CH-7 exceeds 22 million carats •Pre-production capital requirement ~\$455m, incl \$95m for access road from Iqaluit, \$55m in contingency •Pre-tax NPV(7.5) of \$1069 million and a pre-tax IRR of 38.6% •After-tax NPV(7.5) of \$679 million and an after-tax IRR of 31.1% •Average LOM strip ratio of 6.6:1 (average across the combined CH-6 and CH-7 open pits); Mining to a depth of 300 mbs at CH-6 	Media release 4 July 2019 New kimberlite discoveries may add to future of Gahcho Kué Mine
Angilak	ValOre Metals Corp. (formerly Kivalliq Energy)	Uranium	340,268-acre property located SW of Baker Lake; Hosts the high-grade Lac 50 Trend deposit	Media release, 14 December 2018 ValOre defines new gold in till target areas and extends geophysical coverage to 110 km on Baffin Island, Nunavut Media release, 3 December 2018 ValOre announces rights offering
Naujaat Diamond Project	North Arrow Minerals	Diamonds	7 km from tidewater; 9 km from Repulse Bay, Melville Peninsula; 7,143 hectares of contiguous mineral claims. Largest kimberlite in Nunavut.	Media release, 3 September 2019 North Arrow closes sale of Loki Diamond Project royalty for \$266,000 Media release 7 August 2019 North Arrow to raise \$266,000 selling Loki royalty; completes till sampling program
Committee Bay Gold Project	Auryn Resources Inc. (purchased North Country Gold Corp.)	Gold	<ul style="list-style-type: none"> • High grade gold endowment • Existing exploration infrastructure • 217,600 hectares with district scale discovery opportunities 	Media release 25 October 2019 Auryn drills gold-bearing hydrothermal system at Committee Bay

Project maps

The northern mining industry's 7 operating mines



We are surrounded by even more potential

